

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

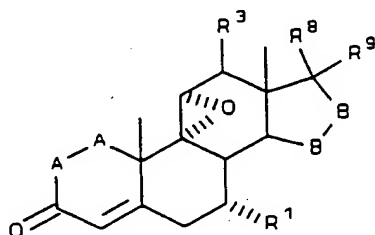
**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

# PROCESSES FOR PREPARATION OF 9,11-EPOXY STERIODS AND INTERMEDIATES USEFUL THEREIN

## Abstract of the Disclosure

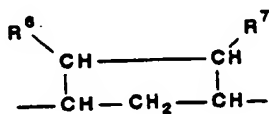
Multiple novel reaction schemes, novel process  
steps and novel intermediates are provided for the  
5 synthesis of epoxymexrenone and other compounds of  
Formula I



I

wherein:

- 10 -A-A- represents the group  $\text{-CHR}^4\text{-CHR}^5\text{-}$  or  $\text{-CR}^4\text{=CR}^5\text{-}$   
 $\text{R}^3$ ,  $\text{R}^4$  and  $\text{R}^5$  are independently selected from  
the group consisting of hydrogen, halo,  
hydroxy, lower alkyl, lower alkoxy,  
hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl,  
15 cyano, aryloxy,  
 $\text{R}^1$  represents an alpha-oriented lower  
alkoxycarbonyl or hydroxyalkyl radical,  
-B-B- represents the group  $\text{-CHR}^6\text{-CHR}^7\text{-}$  or an  
alpha- or beta- oriented group:



III

20

where  $\text{R}^6$  and  $\text{R}^7$  are independently selected from  
the group consisting of hydrogen, halo, lower  
alkoxy, acyl, hydroxyalkyl, alkoxyalkyl,  
hydroxycarbonyl, alkyl, alkoxycarbonyl,  
25 acyloxyalkyl, cyano, aryloxy, and

25

30

R<sup>8</sup> and R<sup>9</sup> are independently selected from the group consisting of hydrogen, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxycarbonyl, acyloxyalkyl, cyano, aryloxy, or R<sup>8</sup> and R<sup>9</sup> together comprise a carbocyclic or heterocyclic ring structure, or R<sup>8</sup> or R<sup>9</sup> together with R<sup>6</sup> or R<sup>7</sup> comprise a carbocyclic or heterocyclic ring structure fused to the pentacyclic D ring.